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NEW TIMES OF MINIMA OF SOME ECLIPSING BINARY STARS

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Observatory and telescope:

40-cm Cassegrain-Schmidt telescope of the Çanakkale University Observatory, (ÇUG40)

30-cm Cassegrain-Schmidt telescope of the Çanakkale University Observatory, (ÇUG301)

30-cm Cassegrain-Schmidt telescope of the Çanakkale University Observatory, (ÇUG302)

Detector:

-ST10XME camera, Peltier cooling, KAF 3200ME chip, 17' × 12' FOV, 2184 × 1472 pixels.

-ST237 camera, Peltier cooling, TC237 chip, 11' × 8' FOV, 640 × 480 pixels.

-SSP5 photometer, Hamamatsu R6358 photomultiplier tube at Çanakkale University Observatory.

Method of data reduction:

Reduction of the CCD frames was made with C-MUNIPACK¹ software, and reduction of photoelectric observations was made by ATMEX² software.

Method of minimum determination:

Kwee – van Woerden method (Kwee & van Woerden, 1956).

¹Motl, D., 2004, C-MUNIPACK, <http://integral.sci.muni.cz/cmunicipack/>

²Keskin, V., 2001, ATMEX, <http://astronomy.sci.ege.edu.tr/~keskinv/software/>

Times of minima:					
Star name	Time of min. HJD 2400000+	Error	Type	Filter	Rem.
XZ Aql	52813.4100	0.0002	I	C	ÇUG302
	53583.5258	0.0004	I	BV	ÇUG301
OO Aql	52801.5506	0.0002	II	C	ÇUG302
	52822.3298	0.0005	II	C	ÇUG302
	52842.3471	0.0002	I	C	ÇUG302
TT Aur	53330.5083	0.0002	I	BV	ÇUG40
UW Boo	52793.4183	0.0001	I	C	ÇUG302
AC Boo	52800.4155	0.0002	II	C	ÇUG302
	52801.4716	0.0002	II	C	ÇUG302
	52806.4081	0.0002	II	C	ÇUG302
AR Boo	52808.3591	0.0003	I	C	ÇUG302
SV Cam	52820.3716	0.0002	I	C	ÇUG302
AB Cas	53630.3985	0.0001	I	V	ÇUG301
	53632.4365	0.0003	II	V	ÇUG301
IR Cas	53640.2979	0.0009	I	C	ÇUG301
TV Cas	53627.3470	0.0006	I	BV	ÇUG40
VW Cep	53565.4056	0.0002	I	VR	ÇUG40
XX Cep	53630.4593	0.0003	I	V	ÇUG301
EG Cep	52822.3930	0.0003	I	C	ÇUG302
	53630.3389	0.0002	I	V	ÇUG301
EM Cep	53336.3489	0.0050	II	BV	ÇUG40
	53376.2517	0.0020	I	BV	ÇUG40
	53382.3026	0.0017	II	BV	ÇUG40
	53508.4657	0.0011	II	BV	ÇUG40
GSC 4288-0186	53577.4608	0.0003	II	BVRcIc	ÇUG301
	53580.4396	0.0002	I	BVRcIc	ÇUG301
ZZ Cyg	52806.4742	0.0001	I	C	ÇUG302
	53593.4985	0.0001	I	V	ÇUG301
DK Cyg	53596.4542	0.0001	I	V	ÇUG301
UW Cyg	52848.4325	0.0003	I	C	ÇUG302
V388 Cyg	53585.4975	0.0009	I	BVRc	ÇUG301
V859 Cyg	52815.3687	0.0003	II	C	ÇUG302
V1061 Cyg	52818.4520	0.0009	I	C	ÇUG302
Z Dra	53266.4698	0.0001	I	BVRcIc	ÇUG301
	53296.3321	0.0001	I	BVRcIc	ÇUG301
	53302.4428	0.0010	II	BVRcIc	ÇUG301
	53332.3022	0.0009	II	BVRcIc	ÇUG301
TZ Dra	53634.2801	0.0007	I	BV	ÇUG40
TW Dra	52854.4012	0.0004	I	C	ÇUG302
V1034 Her	53596.3613	0.0007	I	BVRc	ÇUG301
SW Lac	53614.3160	0.0007	I	BV	ÇUG40
	53630.3530	0.0004	I	BV	ÇUG40
EM Lac	52836.3380	0.0004	II	C	ÇUG302
EW Lyr	53542.3617	0.0005	I	BVRcIc	ÇUG301
V502 Oph	52768.5242	0.0002	II	C	ÇUG302
V839 Oph	52771.4088	0.0002	II	C	ÇUG302
	52813.3267	0.0003	I	C	ÇUG302
AT Peg	52842.4231	0.0011	I	C	ÇUG302
BG Peg	53640.4664	0.0004	I	C	ÇUG301
DI Peg	53614.4169	0.0003	I	V	ÇUG40
AU Ser	52821.5178	0.0002	I	C	ÇUG302

Remarks:

We are presenting 51 minima times of 34 eclipsing binaries. In the Remarks column of Times of Minima table, telescopes used in the observations are given. We have detected 0.25 magnitude drop in the brightness of USNO 1522-0015678. If this is due to an eclipse, the time of minimum was calculated to be 2453548.4399 ± 0.0009

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Reference:

Kwee, K. K., & van Woerden, H., 1956, *Bull. Astron. Inst. Neth.*, **12**, 327.